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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/657,570	09/08/2003	Nizal Chandrakumar	2927/1A/US (6794-000085/D	9862		
75	90 06/23/2005		EXAMINER			
Pharmacia Corporation Global Patent Department			WEDDINGTO	WEDDINGTON, KEVIN E		
P. O. Box 1027	•	ART UNIT	PAPER NUMBER			
St. Louis, MO	63006	1614				
			DATE MAILED: 06/23/2009	DATE MAILED: 06/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application	on No.	Applicant(s)			
Office Action Summary		10/657,57		CHANDRAKUMA	R ET AL.		
		Examiner	-	Art Unit			
		Kevin E. V	Veddington_	1614			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the	cover sheet with the	correspondence ac	idress		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statute are to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no everation. ays, a reply within the state try period will apply and will by statute, cause the app	ent, however, may a reply be ti story minimum of thirty (30) da Il expire SIX (6) MONTHS fron ication to become ABANDON!	mely filed ys will be considered time n the mailing date of this c ED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed of	on <u>18 March 2005</u> .					
2a)□	This action is <b>FINAL</b> . 2b)	oxtimes This action is n	his action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□	Claim(s) 27-35 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 27-35 is/are rejected.  Claim(s) is/are objected to.						
Applicat	ion Papers						
9)[	The specification is objected to by the E	xaminer.					
10)	))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	• •		_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO	.948) -	4) Interview Summar Paper No(s)/Mail D				
3) 🔲 Infor	ie of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTo or No(s)/Mail Date		5) Notice of Informal 6) Other:		O-152)		

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Claims 27-35 are presented for examination.

Applicants' amendment filed March 18, 2005 has been received and entered.

Accordingly, the rejection made under 35 USC 103 a set forth in the previous Office action at pages 3–5 is hereby withdrawn because the cited reference, Fisher et al. (5,451,677) does not teach the applicants' preferred compounds, phenylcarbonylaminophenylsulfonlyaminoethylcarbonyl core or phenylsulfonylaminophenylsulfonylaminoethylcarbonyl core.

## Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 27 is again rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 5 of U.S.

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Patent No. 6,677,308. Although the conflicting claims are not identical, they are not patentably distinct from each other because the present application teaches a method for treating diabetic retinopathy in a mammal with an effective  $\alpha$  v $\beta$  3 inhibiting amount of meta-substituted phenylene sulphonamides, and the patented application teaches a method for treating conditions mediated by the  $\alpha$  v $\beta$  3 integrin in a mammal with the same derivatives. Clearly, the patented application's broad method of treating conditions includes the present application's diabetic retinopathy since the patented application states in column 15, line 25, that 'diabetic retinopathy' is a condition mediated by  $\alpha$  v $\beta$  3 integrin.

The rejection made under obviousness-type double patenting is adhered

Claim 27 is not allowed.

to

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 27-35 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject

matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In this regard, the application disclosure and claims have been compared per factors indicated in the decision <u>In re Wands</u>, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art
- 7) the predictability of the art and
- 8) the breadth of the claims

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice that instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

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The claimed invention relates to a method for treating diabetic retinopathy in a mammal in need of such treatment, wherein: the method comprising administering an effective  $\alpha$  v $\beta$ 3 inhibiting amount comprising from about 0.01 mg to about 1000 mg per kilogram of body weight of phenylcarbonylaminophenylsulfonlyaminoethylcarbonyl core or phenylsulfonylaminophenylsulfonylaminoethylcarbonyl core compounds disclosed in claim 27.

The relative skill of those in the art is generally that of a Ph.D. or M.D.

The present invention is unpredictable unless experimentation is shown for the phenylcarbonylaminophenylsulfonlyaminoethylcarbonyl core or phenylsulfonylaminophenylsulfonylaminoethylcarbonyl core compounds of claim 27 to treat diabetic retinopathy.

The amount of direction or guidance provided and the presence or absence of working examples

There are no working examples showing the instant phenylcarbonylaminophenylsulfonlyaminoethylcarbonyl core or phenylsulfonylaminophenylsulfonylaminoethylcarbonyl core compounds of claim 27 will treat diabetic retinopathy.

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## The quantity of experimentation necessary

Applicants have failed to provide guidance as to how the phenylcarbonylaminophenylsulfonlyaminoethylcarbonyl core or phenylsulfonylaminophenylsulfonylaminoethylcarbonyl core compounds of claim 27 are effective in treating diabetic retinopathy. The level of experimentation needed to determine the other instant compounds would be able to treat diabetic retinopathy is undue. Therefore, undue experimentation would be required to practice the invention as it is claimed in its current scope.

Claims 27-35 are not allowed.

The reference cited on the enclosed PTO-892 is cited to show the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571) 272-0587. The examiner can normally be reached on 11:00 am-7: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571) 272-0951. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin E. Weddington Primary Examiner Art Unit 1614

K. Weddington June 21, 2005